ABSTRACT OF THE DISCLOSURE

A real-time processing system that executes a plurality of threads, each of the threads being a unit of execution of a real-time operation, comprises a plurality of processors, a unit which selects a tightly coupled thread group from among the threads based on coupling attribute information indicative of a coupling attribute between the threads, the tightly coupled thread group including a set of tightly coupled threads running in cooperation with each other, and a unit which performs a scheduling operation of dispatching the tightly coupled threads to several of the processors that are equal to the tightly coupled threads to simultaneously execute the tightly coupled threads by the several of the processors.